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EXAMINER
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application No.	Applicant(s)
Office Action Summary		10/633,776	COHEN ET AL.
		Examiner	Art Unit	
		Shashi K. Becker	2179	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE <u>3</u> MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.
- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
  Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on <u>06 March 2007</u>.

2a)☒ This action is **FINAL**.   2b)☐ This action is non-final.

3)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4)☒ Claim(s) *1-38* is/are pending in the application.

   4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5)☐ Claim(s) _____ is/are allowed.

6)☒ Claim(s) *1-38* is/are rejected.

7)☐ Claim(s) _____ is/are objected to.

8)☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9)☐ The specification is objected to by the Examiner.

10)☒ The drawing(s) filed on <u>04 August 2003</u> is/are: a)☒ accepted or b)☐ objected to by the Examiner.

   Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

   Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12)☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

   a)☐ All   b)☐ Some * c)☐ None of:

   1.☐ Certified copies of the priority documents have been received.

   2.☐ Certified copies of the priority documents have been received in Application No. _____.

   3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

   * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☒ Notice of References Cited (PTO-892)

2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)

3) ☐ Information Disclosure Statement(s) (PTO/SB/08)
      Paper No(s)/Mail Date _____.

4) ☐ Interview Summary (PTO-413)
      Paper No(s)/Mail Date. _____.

5) ☐ Notice of Informal Patent Application

6) ☐ Other: _____.

DETAILED ACTION

1.   This action is responsive to the following communication: Amendment filed on

3/6/07. This action is made **final.**

2.   Applicant amended claims 1, 16, 28 and 29.

Claim Rejections - 35 USC § 112

3.   The following is a quotation of the first paragraph of 35 U.S.C. 112:

> The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

4.   Claim 36 is rejected under 35 U.S.C. 112, first paragraph, as failing to comply

with the written description requirement. The claim(s) contains subject matter, which

was not described in the specification in such a way as to reasonably convey to one

skilled in the relevant art that the inventor(s), at the time the application was filed, had

possession of the claimed invention. Applicant does not reasonably convey how the

paintbrush is scaled according to how the source image is scaled. If it is well known in

the art, the applicant should provide evidence. Therefore, the rejection is maintained.

Claim Rejections - 35 USC § 103

5.   The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all

obviousness rejections set forth in this Office action:

> (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

6.   This application currently names joint inventors. In considering patentability of

the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of

the various claims was commonly owned at the time any inventions covered therein

were made absent any evidence to the contrary. Applicant is advised of the obligation

under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was

not commonly owned at the time a later invention was made in order for the examiner to

consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g)

prior art under 35 U.S.C. 103(a).

7.   Claim 1, 4, 7-13, 16, 18-23, 28, 29, and 30-37 are rejected under 35 U.S.C.

103(a) as being unpatentable over "Photoshop 3," by Dayton et al (hereinafter Dayton),

in view of Hsu et al (hereinafter Hsu) US Patent 6078701.

- In regards to claims 1, 16, and 29, Dayton teaches a computer-

  implemented process, a system, computer-readable medium, and a graphical

  user interface for creating a composite image, comprising using a computer to

  perform the following process actions: applying one or more filters to the image

  to create one or more new intermediate images (pg. 54); selecting one of the

  original images in the image stack or an intermediate image as a source image

  (pg. 54); and selecting pixels from the source image to be added to a composite

  image to create a final composite image (pg. 54). However, Dayton does not

  specifically teach and image stack or inputting an image stack comprising a stack

  of original images, wherein the pixel position of each original image in the image

  stack is defined in a three dimensional coordinate system, and wherein two

dimensions describe the dimensions of each image in the image stack, and the third dimension describes the time an image was captured.

Hsu teaches a method and apparatus for performing local to global multiframe alignment to construct mosaic images. Hsu further teaches an image stack and inputting an image stack comprising a stack of original images taken from the same point of view, wherein the pixel position of each original image in the image stack is defined in a three dimensional coordinate system, and wherein two dimensions describe the dimensions of each image in the image stack, and the third dimension describes the time an image was captured (column 18 lines 30-46 and column 16 line 44-column 17 line 9). It would have been obvious to one of ordinary skill in the art at the time of the invention to modify the method and apparatus of Dayton to include the time of image capture in order to create three dimensions out of a two-dimensional image stack. One would have been motivated to make such a combination in order to create a three dimensional image out of a two-dimensional image stack, based on time of image capture.

- In regards to claims 4 and 19, Dayton teaches wherein said process action of applying a filter comprises applying a median filter that returns the median pixel luminance along a span of the image, wherein a span is a set of image pixels at the same location in all images of the image (pg. 140).

Hsu teaches the above limitatations (see claims 1, 16, and 29 *supra*). Hsu further teaches an image stack (column 18 lines 30-35). It would have been obvious to one of ordinary skill in the art at the time of the invention to modify the method

and apparatus of Dayton to include an image stack in order to create three dimensions out of a two-dimensional image. One would have been motivated to make such a combination in order to create a three dimensional image out of a two-dimensional image stack, for accurately aligned images (abstract).

- In regards to claims 7 and 20, Dayton teaches, wherein said process action of applying a filter comprising applying a maximum luminance filter that returns the pixel with the maximum luminance along a span of the image, wherein a span is the set of image pixels at the same location in all images of the image (pg. 140).

Hsu teaches the above limitatations (see claims 1, 16, and 29 *supra*). Hsu further teaches an image stack (column 18 lines 30-35). It would have been obvious to one of ordinary skill in the art at the time of the invention for the same reasons stated above (see claims 4 and 19 *supra*).

- In regards to claims 8 and 21, Dayton teaches wherein said process action of applying a filter comprises applying a maximum contrast filter that returns the pixel that has the highest contrast in a small neighborhood around it along a span of the image, wherein a span is the set of image pixels at the same location in all images of the image (pg. 76).

Hsu teaches the above limitatations (see claims 1, 16, and 29 *supra*). Hsu further teaches an image stack (column 18 lines 30-35). It would have been obvious to one of ordinary skill in the art at the time of the invention for the same reasons stated above (see claims 4 and 19 *supra*).

- In regards to claim 9, Dayton teaches wherein said small neighborhood is 5 by 5 pixels (pg. 83).

- In regards to claims 10, Dayton teaches wherein said·process action of applying a filter comprises applying a temporal smoothing filter that returns a weighted blend of a current image and the images before and after it, for a given span of the image, wherein a span is the set of image pixels at the same location in all images of the image (pg 139).

Hsu teaches the above limitatations (see claims 1, 16, and 29 *supra*). Hsu further teaches an image stack (column 18 lines 30-35). It would have been obvious to one of ordinary skill in the art at the time of the invention for the same reasons stated above (see claims 4 and 19 *supra*).

- In regards to claim 11, Dayton teaches wherein said process action of applying a filter comprises applying a temporal sharpening filter that returns a pixel in the current image modified by the difference of the pixels in the images before and after the current image for a given span of the image, wherein a span is the set of image pixels at the same location in all images of the image (pg 136).

Hsu teaches the above limitatations (see claims 1, 16, and 29 *supra*). Hsu further teaches an image stack (column 18 lines 30-35). It would have been obvious to one of ordinary skill in the art at the time of the invention for the same reasons stated above (see claims 4 and 19 *supra*).

- In regards to claim 12, Dayton teaches wherein said process action of applying a filter comprises applying a high dynamic range filter that combines different exposures over a span of the image, wherein a span is the set of image pixels at the same location in all images of the image (pg. 76).

Hsu teaches the above limitatations (see claims 1, 16, and 29 *supra*). Hsu further teaches an image stack (column 18 lines 30-35). It would have been obvious to one of ordinary skill in the art at the time of the invention for the same reasons stated above (see claims 4 and 19 *supra*).

- In regards to claim 13, Dayton teaches wherein the high dynamic range filter extracts exposure information associated with the original images that comprise the image (pg. 76).

Hsu teaches the above limitatations (see claims 1, 16, and 29 *supra*). Hsu further teaches an image stack (column 18 lines 30-35). It would have been obvious to one of ordinary skill in the art at the time of the invention for the same reasons stated above (see claims 4 and 19 *supra*).

- In regards to claim 18, Dayton teaches wherein said module to apply a filter applies a high dynamic range luminance filter that comprises sub-modules to: compute a radiance value for each pixel in said image; map the radiance value for each pixel to its luminance value by mapping red, green and blue channels to a display to match the luminance (pg. 76).

Hsu teaches the above limitatations (see claims 1, 16, and 29 *supra*). Hsu further teaches an image stack (column 18 lines 30-35). It would have been obvious to

one of ordinary skill in the art at the time of the invention for the same reasons

stated above (see claims 4 and 19 *supra*).

•   In regards to claim 22, Dayton teaches wherein said module to apply a

filter applies a high dynamic range filter that comprises sub-modules to: compute

a radiance value for each pixel in said image; map the radiance values for each

pixel back to a set of display values via a tone-map (pg. 76).

Hsu teaches the above limitatations (see claims 1, 16, and 29 *supra*). Hsu further

teaches an image stack (column 18 lines 30-35). It would have been obvious to

one of ordinary skill in the art at the time of the invention for the same reasons

stated above (see claims 4 and 19 *supra*).

•   In regards to claim 23, Dayton teaches wherein said tone-map is user-

defined (pg. 76).

•   In regards to claim 28, Dayton teaches a computer-readable medium

having computer executable instructions stored thereon for editing an image,

said computer executable instructions operable to: apply a filter to the image to

create an intermediate images (pg. 54); select one of the images in the image or

an intermediate image to serve as a source image for creating a new composite

image (pg. 54); and select pixels from the source image to create a final

composite image (pg. 54). However, Dayton does not specifically teach an image

stack or instructions operable to input an image stack comprising a stack of

original images, taken from the same point of view, wherein the pixel position of

each in the image stack is defined in a three dimensional coordinate system, wherein one dimension is time.

Hsu teaches a method and apparatus for performing local to global multiframe alignment to construct mosaic images. Hsu further teaches an image stack and instructions operable to input an image stack comprising a stack of original images, taken from the same point of view, wherein the pixel position of each in the image stack is defined in a three dimensional coordinate system, wherein one dimension is time (column 18 lines 30-46 and column 16 line 44-column 17 line 9). It would have been obvious to one of ordinary skill in the art at the time of the invention to modify the method and apparatus of Dayton to include the time of image capture in order to create three dimensions. One would have been motivated to make such a combination in order to create a three dimensional image out of a two-dimensional image stack, based on time of image capture.

- In regards to claim 30, Dayton teaches wherein said user creates said intermediate image by applying at least one filter to the image and users said intermediate image as a source image (pg. 54).

Hsu teaches the above limitatations (see claims 1, 16, and 29 *supra*). Hsu further teaches an image stack (column 18 lines 30-35). It would have been obvious to one of ordinary skill in the art at the time of the invention for the same reasons stated above (see claims 4 and 19 *supra*).

- In regards to claim 31, Dayton teaches wherein parts of said source image are transferred to said composite image by transferring pixels from the source image to the composite image (pg. 54).

- In regards to claim 32, Dayton teaches wherein said transfer of pixels from said source image to said composite image is based on a one-to-one correspondence regardless of whether the user initiates pixel transfer from the source image or the composite image (pg. 83).

- In regards to claims 33 and 35, Dayton teaches further comprising a paintbrush function that transfers some pixels from said source image to said composite image (pg. 176).

- In regards to claim 34, Dayton teaches wherein a radius of pixel transfer is user-defined (pg. 83 and 140).

- In regards to claim 36, Dayton teaches wherein scaling the source image or the composite image scales paint brush function (pg. 76).

- In regards to claim 37, Dayton teaches wherein a highest resolution image available is used when transferring pixels using the paintbrush function even when the source image or composite image is scaled (pg. 35).

8.   Claims 2, 5, and 6 are rejected under 35 U.S.C. 103(a) as being unpatentable over Dayton and Hsu as applied to claims 1, 4, 7-13, 16, 18-23, 28, 29, and 30-37 above, and further in view of Wise et al (hereinafter Wise), US Patent 6130676

•   In regards to claim 2, Dayton and Hsu teach the above limitations in the claims above (see claims 1, 4, 7-13, 16, 18-23, 28, 29, and 30-37 *supra*). However, Dayton and Hsu do not specifically teach wherein the process action of inputting an image stack comprises inputting an image stack wherein said original images are defined in a Cartesian coordinate system.

Wise teaches an image composition system and process using layers. Wise further teaches wherein the process action of inputting an image stack comprises inputting an image stack wherein said original images are defined in a Cartesian coordinate system (Figure 8). It would have been obvious to one of ordinary skill in the art at the time of the invention to modify the method and apparatus of Dayton and Hsu in order to include images defined in a Cartesian coordinate system to be easily understood. One would have been motivated to make such a combination in order to allow all users to easily understand how the images are stacked according to a familiar coordinate system.

•   In regards to claim 5, Dayton and Hsu teach the above limitations in the claims above (see claims 1, 4, 7-13, 16, 18-23, 28, 29, and 30-37 *supra*). However, Dayton and Hsu do not specifically teach wherein said process action of applying a filter comprises applying a maximum histogram filter that returns the pixel with the minimum sum of squared distances in red, green, blue color space to all other pixels along a span of the image stack, wherein a span is the set of image pixels at the same location in all images of the image stack.

Wise teaches an image composition system and process using layers. Wise further teaches wherein said process action of applying a filter comprises applying a maximum histogram filter that returns the pixel with the minimum sum of squared distances in red, green, blue color space to all other pixels along a span of the image stack, wherein a span is the set of image pixels at the same location in all images of the image stack (column 5 lines 1-14). It would have been obvious to one of ordinary skill in the art at the time of the invention to modify the method and apparatus of Dayton and Hsu to include a histogram filter that returns the pixel with the minimum sum of squared distances in red, green, blue color space in order to maximize color levels. One would have been motivated to make such a combination in order to make a customized color palette.

- In regards to claim 5, Dayton and Hsu teach the above limitations in the claims above (see claims 1, 4, 7-13, 16, 18-23, 28, 29, and 30-37 *supra*). However, Dayton and Hsu do not specifically teach wherein said process action of applying a filter comprises applying a minimum histogram filter that returns the pixel with the minimum sum of squared distances in red, green, blue color space to all other pixels along a span of the image stack, wherein a span is the set of image pixels at the same location in all images of the image stack.

Wise teaches an image composition system and process using layers. Wise further teaches wherein said process action of applying a filter comprises applying a minimum histogram filter that returns the pixel with the minimum sum

of squared distances in red, green, blue color space to all other pixels along a

span of the image stack, wherein a span is the set of image pixels at the same

location in all images of the image stack (column 5 lines 1-14). It would have

been obvious to one of ordinary skill in the art at the time of the invention to

modify the method and apparatus of Dayton and Hsu to include a histogram filter

that returns the pixel with the minimum sum of squared distances in red, green,

blue color space in order to minimize color levels. One would have been

motivated to make such a combination in order to make a customized color

palette.

9.   Claims 3 and 17 are rejected under 35 U.S.C. 103(a) as being unpatentable over

Dayton and Hsu as applied to claims 1, 4, 7-13, 16, 18-23, 28, 29, and 30-37 above,

and further in view of Jodoin et al (hereinafter Jodoin), US Patent 5493419.

- In regards to claim 3, Dayton and Hsu teach the above limitations in the claims

  above (see claims 1, 4, 7-13, 16, 18-23, 28, 29, and 30-37 *supra*). However,

  Dayton and Hsu do not specifically teach wherein said process action of applying

  a filter comprises applying a slice filter wherein said filter returns an image in said

  image stack.

  Jodoin teaches stack filters for 1-to-N bit image processing in electronic printers.

  Jodoin further teaches wherein said process action of applying a filter comprises

  applying a slice filter wherein said filter returns an image in said image stack

  (Abstract). It would have been obvious to one of ordinary skill in the art at the

  time of the invention to modify the method and apparatus of Dayton and Hsu to

include a slice filter. One would have been motivated to make such a

combination in order to use the filter to better format the image.

- In regards to claim 17, Dayton and Hsu teach the above limitations in the claims

  above (see claims 1, 4, 7-13, 16, 18-23, 28, 29, and 30-37 *supra*). However,

  Dayton and Hsu do not specifically teach wherein said module to apply a filter

  applies a slice (x,y) filter wherein for each (x, y) said filter returns a pixel at depth

  z from said image stack..

  Jodoin teaches stack filters for 1-to-N bit image processing in electronic printers.

  Jodoin further teaches wherein said module to apply a filter applies a slice (x,y)

  filter wherein for each (x, y) said filter returns a pixel at depth z from said image

  stack (Abstract). It would have been obvious for the same reasons stated above

  (see claim 3 *supra*).

10.   Claims 14, 26,and 27 are rejected under 35 U.S.C. 103(a) as being unpatentable

over Dayton and Hsu as applied to claims 1, 4, 7-13, 16, 18-23, 28, 29, and 30-37

above, and further in view of Okamoto et al (hereinafter Okamoto), US Patent 5754618.

- In regards to claims 14 and 26, Dayton and Hsu teach the above limitations in

  the claims above (see claims 1, 4, 7-13, 16, 18-23, 28, 29, and 30-37 *supra*).

  However, Dayton and Hsu do not specifically teach wherein said process action

  of applying a filter comprises applying a surface filter that operates on a given

  surface through the image stack.

  Okamoto teaches an image processing apparatus and method for favorably

  enhancing continuous boundaries, which are affected by noise. Okamoto further

teaches said process action of applying a filter comprises applying a surface filter

that operates on a given surface through the image stack (column 19 lines 12-

21). It would have been obvious to one of ordinary skill in the art at the time of

the invention to modify the method and apparatus of Dayton and Hsu to include a

surface filter in order to filter via surface of the image. One would have been

motivated to make such a combination in order to use the filter to better format

the image.

- In regards to claim 27, Dayton and Hsu teach the above limitations in the claims

  above (see claims 1, 4, 7-13, 16, 18-23, 28, 29, and 30-37 *supra*). However,

  Dayton and Hsu do not specifically teach wherein said surface embedded in the

  image stack is user-defined.

  Okamoto teaches an image processing apparatus and method for favorably

  enhancing continuous boundaries, which are affected by noise. Okamoto further

  teaches wherein said surface embedded in the image stack is user-defined

  (Abstract). It would have been obvious for the reasons stated in the above claim

  (see claims 14 and 26 *supra*).

11.   Claims 15, 24 and 25 are rejected under 35 U.S.C. 103(a) as being unpatentable

over Dayton and Hsu as applied to claims 1, 4, 7-13, 16, 18-23, 28, 29, and 30-37

above, and further in view of Chuang et al (hereinafter Chuang), "Video Matting of

Complex Scenes".

- In regards to claims 15, 24, and 25, Dayton and Hsu teach the above limitations

  in the claims above (see claims 1, 4, 7-13, 16, 18-23, 28, 29, and 30-37 *supra*).

However, Dayton and Hsu do not specifically teach wherein said process action

of applying a filter comprises applying a mat filter that produces a mat of a given

portion of the image stack, wherein the mat is an image of transparency values

that will modify the source image when it is used for creating said composite

image.

Chuang teaches video matting of complex scenes. Chuang further teaches

wherein said process action of applying a filter comprises applying a mat filter

that produces a mat of a given portion of the image stack, wherein the mat is an

image of transparency values that will modify the source image when it is used

for creating said composite image (page 1, introduction). It would have been

obvious to one of ordinary skill in the art at the time of the invention to modify the

method and apparatus of Dayton and Hsu to include a mat filter to manipulate

the background and foreground. One would have been motivated to make such

a combination in order to use the filter to better format the image.

12.   Claim 38 is rejected under 35 U.S.C. 103(a) as being unpatentable over Dayton

and Hsu as applied to claims 1, 4, 7-13, 16, 18-23, 28, 29, and 30-37 above, and further

in view of Funayama et al (hereinafter Funayama), US Patent 6389155.

- In regards to claim 38, Dayton and Hsu teach the above limitations in the claims

   above (see claims 1, 4, 7-13, 16, 18-23, 28, 29, and 30-37 *supra*). However,

   Dayton and Hsu do not specifically teach further comprising a paint brush

   function that transfers all pixels associated with a face from said source image to

said composite image when said paint brush function is used to select a portion

of said face.

Funayama teaches an image processing apparatus. Funayama further teaches

further comprising a paint brush function that transfers all pixels associated with

a face from said source image to said composite image when said paint brush

function is used to select a portion of said face (Figure 4). It would have been

obvious to one of ordinary skill in the art at the time of the invention to modify the

method and apparatus of Dayton and Hsu to include transferring all pixels

associated with a face from said source image to said composite image when

said paint brush function is used to select a portion of said face in order to select

a portion of the face. One would have been motivated to make such a

combination in order to better format the image.

Response to Arguments

Applicant argues that Dayton does not teach an intermediate image. Applicant

quotes page 3 paragraph 4 of the specification, "Filters may be applied to tile 3D image

stack, or a portion thereof, to create one or more new 2D intermediate images. A filter is

a function that operates on the 3D image stack to create a 2D image. An intermediate

image is one created by running a filter on the image stack." Applicant argues that in

contrast, Dayton teaches a technique for applying filters to a single image.

Examiner disagrees. As the applicant has clearly pointed out, an intermediate

image by applying filters "to a 3D image stack, or a portion thereof." One image can be

considered a portion of an image stack and once filtered would be an intermediate image. Therefore, Dayton teaches the above limitations.

Applicant argues that Dayton does not teach creating high dynamic range images. Examiner disagrees. Dayton clearly creates a high dynamic range image clearly shown on page 76. Applicant defines a high dynamic range to be, "the HighDynamicRange (x, y, map(R ---*Y)) filter assumes the input stack has images with different exposures and exposure information. This filter computes a radiance value for each pixel and then tone maps the radiance back to the gamut of the monitor (e.g., 0 to 255) via a user defined tone map (automatic tone mapping can also be used). The map can be adjusted in real time as the user observes the resulting intermediate image (specification page 4)." Dayton shows filtering the radiance value (e.g. 0-255, RGB levels, see margin on page 76). Therefore, Dayton meets the above claimed limitations.

Applicant argues that Dayton does not teach combining images captured under different lighting conditions, removing objects from images, and combining images captured at multiple points in time or with different focal lengths, and creating a variety of special effects using the image stack. Examiner disagrees. These limitations are not in the claim language and therefore claim interpretations are left up to the broadest interpretation of the examiner.

Applicant's arguments with respect to claims 1-38 dealing with reference, Xu, have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL.** See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Shashi K. Becker whose telephone number is 571-272-8919. The examiner can normally be reached on Mon-Fri 8:30-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Weilun Lo can be reached on 571-272-4847. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the

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USPTO Customer Service Representative or access to the automated information

system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

skb

BA HUYNH
PRIMARY EXAMINER